						PHASE CHART
PROJECT DESCRIPTION			EQUIPMENT LIST (CO	<u>N'T)</u>	1 2 3 4 5 6 7 8 9 10 11,12 13,14	
I GENERAL				R INSTALLED BY THE CONTRACTOR		
THIS DOBTION OF THE DDO LEST INVOLVES THE BESONSTRUCTION OF THE EVISTING		TOUCTION OF THE EVICTING	CAT. CODE NO. 203030	QUANTITY 2 CY	DESCRIPTION TEST PIT EXCAVATION	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
THIS PORTION OF THE PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL WITH STREET LIGHTING AND PEDESTRIAN SIGNAL HEADS			585624	140 LF	FURNISH AND INSTALL 24 INCH HEAT APPLIED WHITE PERMANENT	
AT MD 174 (QUARTERFIELD ROAD) AND PARKE WEST DRIVE/INDUSTRIAL DRIVE				PREFORMED THERMOPLASTIC PAVEMENT MARKINGS.	PHASE 1 & 5 4G- 4G- 4G- R R R R R DW DW	
IN ANNE ARUNDEL COUNTY. MD 174 IS	IN ANNE ARUNDEL COUNTY. MD 174 IS ASSUMED TO TRAVEL IN AN EAST-WEST DIRECTION.		800000 860278	1 EA 2 EA	FURNISH AND INSTALL 15' "T" STEEL POLE WITH TWIN 50'-60' MAST ARMS. FURNISH AND INSTALL 12 INCH PEDESTRIAN SIGNAL HEAD SECTION	1 & 5 CHANGE THE CONTROLLER MAY SKIP TO PHASES 1 & 6, 2 & 5, OR 2 & 6
II INTERSECTION OPERATION			801004	6 CY	FURNISH AND INSTALL CONCRETE FOUNDATION.	PHASE 1 & 6
			837001	3 EA	FURNISH AND INSTALL GROUND ROD. 3/4" DIAMETER X 10' LENGTH.	PHASE 2 & 5 R R R R G G R R R R DW DW
MD 174 AND PARKE WEST DRIVE/INDUST	MD 174 AND PARKE WEST DRIVE/INDUSTRIAL DRIVE		871202 813015	1 EA 142 SF	INSTALL BASE-MOUNTED CABINET AND CONTROLLER. INSTALL OVERHEAD MOUNTED SHEET ALUMINUM SIGN.	2 & 5 CHANGE R R R $^+$ C $^+$ C G R R R DW DW $^+$ PHASE 2 & 6 G G G G G R R R R WK DW $^-$
1. THE INTERSECTION IS TO OPERATE IN A NEMA SIX-PHASE, FULLY ACTUATED MODE.		K-PHASE, FULLY ACTUATED MODE,	862102	900 LF	FURNISH AND INSTALL SAW CUT.	PED. CLEAR G G G G G R R R FL/DW DW
WITH THE MD 174 APPROACHES RUNNING CONCURRENTLY.		·	805011	65 LF	FURNISH AND INSTALL 1" GALVANIZED STEEL ELECTRICAL CONDUIT	2 & 6 CHANGE Y Y Y Y Y R R R DW DW OO
LEFT TURN PHASE SHALL BE PROVIDED FOR THE EASTBOUND AND WESTBOUND APPROACHES OF MD 174. A PEDESTRIAN PHASE WITH PUSH BUTTON ACTUATION SHALL BE PROVIDED TO			805150	30 LF	(DETECTOR WIRE SLEEVE). FURNISH AND INSTALL 3" POLYVINYL CHLORIDE ELECTRICAL CONDUIT	PHASE 4 & 8 R R R R R R R G G G DW DW 4 & 8 CHANGE R R R R R R Y Y Y DW DW V
.બલાવ	CROSS THE WEST LEG OF MD 174. A PEDESTRIAN PHASE SHALL BE PROVIDED TO CROSS PARKE			30 21	(SCHEDULE 80) (SLOTTED).	4 & 8 ALT. R R R R R G G G DW WK Q.
WEST DRIVE. THE PARKE WEST DR	WEST DRIVE. THE PARKE WEST DRIVE/INDUSTRIAL DRIVE APPROACHES SHALL OPERATE CONCURRENTLY.		805135	200 LF	FURNISH AND INSTALL 3" POLYVINYL CHLORIDE ELECTRICAL CONDUIT	PED. CLEAR R R R R R G G G DW FL/DW
THIS SIGNAL SHALL BE INCLUDED IN A SIGNAL SYSTEM. INTERCONNECT CABLE SHALL BE		805140	20 LF	(SCHEDULE 80) (TRENCHED). FURNISH AND INSTALL 4" POLYVINYL CHLORIDE ELECTRICAL CONDUIT	4 & 8 ALT. CH. R R R R R R R Y Y Y DW DW O'' FLASHING FLASHING	
	INSTALLED UNDERGROUND FROM OLD STAGE ROAD TO PARKE WEST DRIVE.		0007.70	20 2.	(SCHEDULE 80) (TRENCHED).	OPERATION FL/Y FL/Y FL/Y FL/Y FL/Y FL/R FL/R FL/R DARK DARK
A FULL TRAFFIC ACTIVATED FIGUE BUACE ACCAL CONTROLLED WITH FOUR ACC. TOWN			805118	240 LF	FURNISH AND INSTALL 4" POLYVINYL CHLORIDE ELECTRICAL CONDUIT	
	2. A FULL TRAFFIC ACTIVATED, EIGHT-PHASE LOCAL CONTROLLER WITH FOUR (4), FOUR CHANNEL, RACK MOUNTED LOOP DETECTOR AMPLIFIERS, ASSOCIATED HARNESS AND			1 EA	(SCHEDULE 80) (BORED). FURNISH AND INSTALL ELECTRICAL UTILITY SERVICE EQUIPMENT	
MASTER CONTROLLER HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET SHALL		807400		(120/240V. 1 PHASE 3 WIRE SYSTEM).		
BE INSTALLED AT THIS SITE.		811001 802501	4 EA 340 LF	FURNISH AND INSTALL HANDHOLE (FRAME AND COVER).	WIDING DIACDAM	
			002301	J40 LF	FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.).	WIRING DIAGRAM
·			862101	3600 LF	FURNISH AND INSTALL LOOP WIRE (NO. 14 A.W.G.) ENCASED IN 1/4"	
		ŧ	861104	1700 LF	FLEXIBLE TUBING. FURNISH AND INSTALL 2-CONDUCTOR ELECTRICAL CABLE	
			001104	1700 Lr	(NO. 14 A.W.G.) (ALUMINUM SHIELDED).	
		861105	380 LF	FURNISH AND INSTALL 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)	/ ^	
CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS: CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY:		CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY:	861106 861107	300 LF 200 LF	FURNISH AND INSTALL 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) FURNISH AND INSTALL 5-CONDUCTOR ELECTRICAL CABLE	
AND LADBY FLLIGHT		ND DIGHADO DACE CO	3	200 Li	(NO. 14 A.W.G.).	LW. IW
MR. LARRY ELLIOTT ASSISTANT DISTRICT ENGINEER - TRAFFIC	С	MR. RICHARD DAFF SR. CHIEF. TRAFFIC OPERATIONS DIVISION	861108	1175 LF	FURNISH AND INSTALL 7-CONDUCTOR ELECTRICAL CABLE	/ /// ///
410-841-1003		410-787-7630	861116	280 LF	(NO. 14 A.W.G.). FURNISH AND INSTALL 2-CONDUCTOR ELECTRICAL CABLE	X.Y
MR. MARK COBLENTZ		MD DOBERT CHYPER	00		(NO. 12 A.W.G.) TYPE THHN TRAY CABLE.	$\mathcal{L}_{\mathcal{L}}}}}}}}}}$
ASSISTANT DISTRICT ENGINEER - CONSTRU	UCTION	MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF. TRAFFIC OPERATIONS DIVISION	861117 N 860272	60 LF	FURNISH AND INSTALL 3 WIRE ELECTRICAL CABLE (NO. 4 A.W.G.).	G.J.K.R.Q.AA.DDE.F.G.J.K.R.Q.T.Y.AA.DD.HH.II
410-841-1004		410-787-7630	860272	16 EA	FURNISH AND INSTALL 12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION.	HH, II V, W
MR. CHARLES GEORGE		MR. ED RODENHIZER	860270	3 EA	FURNISH AND INSTALL 8 INCH VEHICULAR TRAFFIC SIGNAL	G.J AA DD K
ASSISTANT DISTRICT ENGINEER - MAINTENANCE		TEAM LEADER - SIGNAL OPERATIONS	800000	LS	HEAD SECTION. REMOVE AND DISPOSAL OF EXISTING EQUIPMENT.	LWII R K O //
410-841-1002		410-787-7650	810550	6 EA	FURNISH AND INSTALL MICROLOOP PROBE SET WITH 500 FOOT LEAD-IN.	LWHH G.J
MR. JOHN MAYS		MR. EUGENE BAILEY	822002	380 LF	FURNISH AND INSTALL 12 PAIR. VOICE GRADE INTERCONNECT CABLE (NO. 19 A.W.G.) (JELLY FILLED)	
ASSISTANT DISTRICT ENGINEER - UTILITIES		TEAM LEADER - SIGN OPERATIONS	· Note of		TNU- 13 A-N-G-7 (JELLT FILLEU)	LW A H W I'// \ B B LW
410-841-1005		410-787-7676		BE REMOVED AND RETUR	NED TO THE STATE HIGHWAY ADMINISTRATION	B.E.F.G.J.K.R.Q.W.V.X.Y.AA.DD.HH.II
		MR. DAVE SCHWARTZ	QUANT I TY		DESCRIPTION	M DESTROY AND THAT
		SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)		REMOVE THE CONTROL	l.	M H.I
		410-787-7668		MENT FROM THE CONTRO ALL OTHER MATERIALS		S.FF.GG PL (GG)
EQUIPMENT LIST			DR SHALL BECOME THE	PROPERTY OF	T.U CC.EE P L BB / S.FF.GG	
			THE CONTRACTOR.		WIRING KEY A.B.C.D.E.F - 2-CONDUCTOR ELECTRICAL CABLE (NO. 14	A.T.U.CC.EE A.B.C.D.E.F.G.H.I.J.K.L.Q.R.S.T.
A. EQUIPMENT TO BE SUPPLIED BY THE STATE HIGHWAY ADMINISTRATION CAT. CODE NO. QUANTITY DESCRIPTION				FF.GG.HH.II (ALUMINUM SHIELDED)	/// // #310100 U.V.W.X.Y.Z.AA.BB.CC.DD.EE.FF.	
971017 1 EA	E I GHT-PHASE	FULL-TRAFFIC-ACTUATED, SOLID STATE DIGITAL			G.H.I.J.K.L - 7-CONDUCTOR ELECTRICAL CABLE (NO. 14	GG.HH.II A.W.G.)
•		OLLER WITH FOUR (4) 4-CHANNEL, RACK MOUNT			M.N.O.P.CC - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14	
		OR AMPLIFIERS, ASSOCIATED HARNESSES AND MASTER HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET.			Q - 1-CONDUCTOR (NO. 6 A.W.G.) STRANDED E	IW IW A CHARLES OF COLUMN COLU
973023 142 SF	OVERHEAD MC	UNTED SHEET ALUMINUM SIGNS TO CONSIST OF:			COPPER GROUND WIRE	DARL
	1 EA D3-	2 "Quarterfield Rd." DUAL-FACE SIGN. (VARIABLE X 16") MAST ARM MOUNTED.		. 4	R - 2-CONDUCTOR ELECTRICAL CABLE	
	1 EA D3-	2 "Parke West Dr./Industrial Dr."			(NO. 12 A.W.G.) COPPER TYPE T/C	
		SIGN WITH ARROWS. (VARIABLE X 32") MAST ARM MOUNTED. BACK TO BACK.	-		S - 12 PAIR VOICE GRADE TELEMETRY CABLE (NO. 19 A.W.G.) (JELLY FILLED)	
	1 EA D3-	2 "Industrial Dr./Parke West Dr."			T.U.V.W.X.Y	
		SIGN WITH ARROWS. (VARIABLE X 32") MAST ARM MOUNTED. BACK TO BACK.			- MICROLOOP PROBE LEAD-IN CABLE Z	MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
	1 EA R10				- 3 WIRE ELECTRICAL CABLE (NO. 4 A.W.G.	
	2 []	(36" X 42") MAST ARM MOUNTED.			AA.BB - 3-CONDUCTOR ELECTRICAL CABLE (NO. 14	
	2 EA	"ASSOCIATED SHIELD ASSEMBLY" SIGN (48" X 75") POLE MOUNTED.			DD.EE - 2 CONDUCTOR ELECTRICAL CABLE (NO. 14	
	2 EA	"ASSOCIATED SHIELD ASSEMBLY" SIGN			LW - LOOP WIRE	MD 174 (QUARTERFIELD ROAD) AT PARKE WEST DRIVE / INDUSTRIAL DRIVE GLEN BURNIE. MARYLAND
	1 EÅ R3-	(36" X 51") POLE MOUNTED. 5L "LEFT TURN ONLY" SYMBOL SIGN	•		PS - POWER SERVICE (OVERHEAD) CFNTU	TIRY ENGINEERING INC. DRAWN BY: K.G.A. F.A.P. NO. TS NO.
	· En NJ"	(30"x36") MAST ARM MOUNTED.			•	NSULTING ENGINEERS - PLANNERS CHECKED BY B. THOMPSON S.H.A. NO. 1908 (B) SHEET NO.
also .					1 00000 100	32 WEST ROAD SCALE: N.T.S. COUNTY: ANNE ARUNDEL T.I.M.S. NO. 155 105

DRAWN BY: K.G.A. F.A.P. NO. CHECKED BY: B. THOMPSON S.H.A. NO. COUNTY: ANNE ARUNDEL LOG MILE: 02017402.19

D: *TRANSDWG*97006*50*MR82801*D727GG01.DGN 05

CONSULTING ENGINEERS - PLANNERS 32 WEST ROAD TOWSON, MARYLAND 21204

05/22/02

T.I.M.S. NO. 0727